

Fast Setting Polymer-Modified Portland Cement Skim Coating, Leveling & Patching Underlayment

PRODUCT DESCRIPTION

FEATHEREDGE FASTSET 979 is a non-sanded (Portland cement) compound for the skim coating, leveling and patching of floors prior to the installation of resilient flooring, carpet, ceramic tile, slate, granite or marble. It features the performance characteristics of a patching material that can produce a fine featheredge finish.

Polymer-modified, FEATHEREDGE FASTSET 979 is a one-part system that only requires the addition of water to produce a dense, water resistant surface. The creamy consistency and wetter surface properties provide excellent workability, and when properly mixed, it will featheredge to a non-checking, non-cracking, durable surface 0 - 1/2" (0 - 13 mm) thick.

► BASIC USE

FEATHEREDGE FASTSET is used for rapid patching and leveling uneven, rough or unfinished concrete surfaces. It may be used over cementitious backer units on interior installations (*over exterior grade plywood*) and properly prepared old cutback adhesive. See "Old Cutback Adhesive" section.

► AREAS OF USE

FEATHEREDGE FASTSET 979 may be used on interior or exterior applications where a permanent water resistant surface is required. FEATHEREDGE FASTSET hardens by hydration (curing). Like all Portland cement products, strength increases significantly during the initial 28 days. FEATHEREDGE FASTSET may be applied as thick as 1/2" (13 mm) to featheredge in a single application without fear of shrinking, cracking or spalling.

► LIMITATIONS

Do not use FEATHEREDGE FASTSET 979 over gypsum based surfaces, old adhesive residue, paints, particle board, luan plywood, plastics, vinyl products, epoxy or urethane floor coverings. Use in a temperature range of 40°F to 90°F (4°C to 32°C). (*Do not allow mortar to freeze for the first 72 hours.*) FEATHEREDGE FASTSET 979 shall never be applied to dry concrete. FEATHEREDGE FASTSET 979 may be used as a wearing surface in areas which do not require high chemical resistance or will not exceed moderate traffic (*equivalent to passing test cycles 1 through 10 of ASTM C-627*) i.e., light institutional and commercial installations. For installation of rubber tile and other non-porous backed flooring use an epoxy or a pressure sensitive contact adhesive.

► APPLICABLE STANDARDS

Color — Gray.
Texture — Powder, consisting of Portland cement, mineral filler, organic and inorganic materials.

► PACKAGING

25 lb. (11.3 kg) bags.

INSTALLATION

► PREPARATORY WORK

All surfaces must be structurally sound and non-flexing. Deflection shall not exceed 1/360 of the span including live and dead load. Remove all dust, waxes, sealers, old adhesive residues (*for cutback adhesive residue, see "Old Cutback Adhesive" section*), curing compounds, oils, gypsum based materials, surface hardeners, paints, old floorings and other loose or foreign material before application.

► CONCRETE FLOORS

Concrete slabs shall be fully cured, free of hydrostatic pressure and efflorescence. Chip, sandblast or hammer out loose, poorly bonded concrete. Clean off any resulting dust. Surfaces may be cleaned by acid-etching using a 10% muriatic acid wash. All acid sludge must be neutralized and flushed from the floor. Smooth, steel troweled surfaces shall be roughened to provide a mechanical bond. Dampen concrete floor with clean water but do not let puddles remain. Apply underlayment while floor is still damp.

► WOOD SUBSTRATES

All wooden flooring should be structurally sound with no flexing. Only spot patching should be done on wood substrates. If a leveling layer over 5 ft. (1.5 m) in diameter is required use LEVELCURE® SLU 961 or LCB 951 or proceed as follows:

Exterior Grade Plywood (EGP) must first be securely fastened. Allow a gap of 3/16" to 1/4" (5 to 6 mm) between sheets of plywood for expansion by proper spacing during installation or saw cutting after installation of plywood. Cover the joint with adhesive tape prior to application of metal lath. All plywood flooring must be secured with screw-type nails and glued where possible. Nail or staple thin, galvanized metal lath to the floor. Install 1/4" to 1/2" (6 to 13 mm) thickness of FEATHEREDGE FASTSET 979 mortar over the metal lath.

► OLD CUTBACK ADHESIVE

Old cutback adhesive residue shall be hard and well bonded to the substrate. Scrape off all ridges and remove any loose cutback. The old cutback must be thoroughly dried, hard and bonded. Residue shall be chemically or mechanically reduced to expose the substrate and that only a transparent residue shall be present. Remove all loose concrete or old patching or leveling compounds. Wet mop to remove any dust and dirt as necessary and let dry. Next, mix the FEATHEREDGE FASTSET 979 with clean water and apply to the entire area at 1/16" (1.6 mm) thick. For areas from 1/16" to 1/2" (1.6 to 13 mm), upgrade the mix with undiluted CUREMIX® 937 latex additive at a rate of 1 gal. (3.78 L) per 25 lb. (11.3 kg)

bag. Dry time is one hour minimum depending on jobsite conditions. Always check for moisture prior to installation of flooring materials.

NOTE: Old cutback residue in installations can be used for carpet, vinyl or rubber flooring only. As a practical test, it is recommended that three test areas of 12 square inches (.3 m²) of the finished flooring be installed. Allow test areas to cure for 3 days, then remove to assure adequate bond. For applications of ceramic tile and stone over cutback use UNIFLEX® 916, PERMABOND® 902 with PORCELAIN STONE & TILE 948 additive, or PRO M-FLEX STRATA® FASTSET 914-FS to install the tile directly over the cutback. If leveling or patching over old cutback is required use FEATHEREDGE FASTSET 979 powder mixed with PORCELAIN STONE & TILE 948 in lieu of water.

► SPECIAL SURFACES

Marble, terrazzo and existing ceramic tile surfaces must be well bonded to subfloor, cleaned of any waxes and abraded to a rough surface prior to application of FEATHEREDGE FASTSET 979. Use PORCELAIN STONE & TILE 948 in lieu of water for these types of installations.

► MIXING

Mix one 25 lb. (11.3 kg) bag of FEATHEREDGE FASTSET 979 with one gallon (3.78 L) of clean water or PORCELAIN STONE & TILE 948 latex additive to increase bond and adhesive strength. Mix amounts that can be applied in 10 minutes. Always add the powder to the liquid and mix with a low speed drill (300 RPM or less) until a lump-free mix is obtained. Use a mixing paddle that does not entrap air into the mortar.

NOTE: Do not add any foreign liquids or powders to FEATHEREDGE FASTSET 979.

► APPLICATION

Prior to the application of FEATHEREDGE FASTSET 979, dampen the substrate with clean water (except for wood substrates). Leave no remaining puddles. Once surface is prepared, apply the mixture by forcing the initial coat into the substrate with a trowel. Build the material to the desired thickness, not to exceed 1/2" (13 mm). Begin to finish immediately using a flat steel trowel. For skim coat applications, prepare substrate as explained above. To apply mixture, use a smooth-edged trowel to level the surface area by forcing the mix into substrate voids and imperfections. Trowel at a 45 degree angle to the substrate surface to fill voids while removing excess material from the surface. This product should not be over-troweled. Dip trowel in water frequently to make the finishing process easier; clean tools often. FEATHEREDGE FASTSET 979 may be sanded after a hard set (usually within one hour under normal conditions).

► SKIM COATING

Place FEATHEREDGE FASTSET 979 onto the floor for skim coat application. Using a smooth-edged trowel, level the surface areas by forcing the mix into the voids or surface imperfections. Trowel at a 45° angle to the substrate surface filling the voids and removing the excess from the surface.

► CURING

A minimum cure time is obtained in 60 - 90 minutes, depending on ambient conditions. If the new floor coverings and bonding adhesives are affected by moisture, the FEATHEREDGE FASTSET 979 should be tested by a moisture meter prior to installation of subsequent flooring. Allow the FEATHEREDGE FASTSET 979 to dry to an acceptable moisture level recommended by the manufacturers of the flooring materials and bonding adhesives. Always check moisture prior to installation of wood or resilient flooring materials.

► EXPANSION JOINTS

Expansion joints, saw cut (control) joints, cold joints or structural cracks shall not be covered with FEATHEREDGE FASTSET 979. They should continue through the FEATHEREDGE FASTSET 979 and the subsequent flooring material. Provide expansion joints every 20 - 24 feet (6 - 7.25 m) in each direction. Provide expansion joints through the FEATHEREDGE FASTSET 979 at perimeter walls, dissimilar floors, curbs, columns, pipes etc. An architect or structural engineer must specify expansion joints and show location and details on drawings. Follow procedures EJ 171 in the TCA Handbook.

► CLEAN-UP

Water is all that is needed to remove uncured mortar.

► COVERAGE

Average leveling coverage will be approximately 25 - 27 sq. ft. (2.3 - 2.5 m²) per 25 lb. (11.3 kg) bag at 1/8" (3 mm) thickness. Average skim coating coverage is 225 - 250 sq. ft. per 25 lb. (11.3 kg) bag.

► WARRANTY

FEATHEREDGE FASTSET 979 is included in C-Cure's Five Year System Warranty. For terms and conditions see Warranty Document #WRTDS.

Featheredge FastSet 979

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FEATHEREDGE FASTSET 979 TECHNICAL DATA

TEST	TYPICAL VALUES
A. Working Time @ 70°F (21°C)	10 Minutes
B. Initial Set @ 70°F (21°C)	15 Minutes
C. Final Set @ 70°F (21°C)	30 Minutes
D. Compressive Strength ASTM C109	2 Hours 1100 psi (84 kg/cm ²) 24 Hours 2300 psi (211 kg/cm ²) 7 Days 2800 psi (281 kg/cm ²) 28 Days 4400 psi (309 kg/cm ²)
E. Flexural Strength ASTM C348	28 Days 800 psi (56 kg/cm ²)
F. Bond Strength ASTM D3931	28 Days 400 psi (28 kg/cm ²)
G. Safety—CAUTION: May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approve mask for silica dust. Contains Portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water, and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.	
KEEP OUT OF REACH OF CHILDREN.	
H. Storage Life—One year if kept in sealed bags.	

GUARANTEE

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